# PATENT COOPERATION TREATY

# PCT.

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PCTA9502-92	FOR FURTHER ACTION as wel	see Form PCT/ISA/220 l as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/KR2005/000532	25 FEBRUARY 2005 (25.02.2005	
Applicant		201223(013)
CJ Corporation et al		
This International search report has been prep to Article 18. A copy is being transmitted to the	ared by this International Searching Author the International Bureau.	ity and is transmitted to the applicant according
This international search report consists of a to	otal of 4 sheets.	
It is also accompanied by a cop	y of each prior art document cited in this rep	ort.
Basis of the report     a. With regard to the language, the intellanguage in which it was filed, unles	emational search was carried out on the bas s otherwise indicated under this item.	is of the international application in the
The international search this Authority (Rule 23.1	was carried out on the basis of a translation (l(b)).	of the international application furnished to
b. With regard to any nucleotide a	and/or amino acid sequence disclosed in th	e international application, see Box No. I.
2. Certain claims were found un	searchable (See Box No. II)	•
3. Unity of invention is lacking (S	See Box No. III)	
4. With regard to the title,		ļ
the text is approved as submitted	by the applicant.	
the text has been established by	this Authority to read as follows:	
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5. With regard to the abstract,		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
the text is approved as submitted		
the text has been established, acc	cording to Rule 38.2(b), by this Authority as	it appears in Box No. IV. The applicant
may, within one month from the	date of mailing of this international search r	eport, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be public	shed with the abstract is Figure No.	1
as suggested by the applica	nt.	
because the applicant failed	to suggest a figure.	
because this figure better ch	aracterizes the invention.	
b. none of the figure is to be publish	ned with the abstract.	

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2005/000532

Box No. I Nucleotide and/or amino acid sequence(s) (C	Continuation of item 1.b of the fi	irst sheet)	
With regard to any nucleotide and/or amino acid sequentinvention, the international search was carried out on the	acid sequence disclosed in the international application and necessary to the claimed d out on the basis of :		
a. type of material			
a sequence listing			
table(s) related to the sequence listing			•
b. format of material			
in written format	•		•
in computer readable form			
c. time of filing/furnishing			
contained in the international application as file	led		
filed together with the international application			
furnished subsequently to this Authority for the			
xumunou ouoooquenay so mio raunom, re	e purposes of search		
2. In addition, in the case that more than one version or furnished, the required statements that the informapplication as filed or does not go beyond the application.	mation in the subsequent or addit	tional copies is identical to the	been filed t in the
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3. Additional comments:			
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International application No. PCT/KR2005/000532

#### CLASSIFICATION OF SUBJECT MATTER

#### IPC7 C12N 15/54

According to International Patent Classification (IPC) or to both national classification and IPC

#### FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7 C12N 15/54,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean patents and applications for inventions since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

eKIPASS, Delphion, PATROM, PAJ, NCBI PubMed database

#### DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Frederic M.V. et al., "Carnitine Biosynthesis: Identification of the cDNA Encoding Human gamma-Butyrobetaine Hydroxylase." Biochemical and Biophysical Research Communications, Vol. 250, pp 506-510 (1998).  See the whole document.	7
A	Galagan J.E. et al., "The genome sequence of the filamentous fungus Neurospora crassa." Nature Vol. 422(6934), pp, 859-868 (2003).  See the whole document	1-7
<b>A</b>	Bach. A., "Carnitine biosynthesis in mammals" Reprod Nutr Dev. Vol. 22(4), pp583-596 (1982). See the wohle document.	1 - 7
<b>A</b>	Sandor A. et al., "An enzymatic method for the determination of butyrobetaine via conversion to carnitine after isolation by high performance liquid chromatography." Clin Chim Acta. Vol. 176(1), pp 17-27 (1988) See the whole document	. 1 - 7
A	US 20030037350 A1 (Mellennium Pharmaceuticals, Inc. ) 20 Feburary 2003 See the whole document	1-7

Further documents are listed in the continuation of Box C.

See patent family annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E earlier application or patent but published on or after the international filing date
- nT.n document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of mailing of the international search report

Date of the actual completion of the international search

11 JULY 2005 (11.07.2005)

11 JULY 2005 (11.07.2005)

Name and mailing address of the ISA/KR



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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2005/000532

Patent document cited in search report	Publication dat <del>e</del> .	Patent family member(s)	Publication date
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		W00132885A3	28. 03. 2002
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		US6482620	19. 11. 2002
		AU0141875A5	12. 09. 2001
•	•	AU0113616A5	14. 05. 2001
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